

December 4, 2015

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee
Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for
CPC, OPC, and WPC

Climate Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of December 7, 2015:

RFC #516 – Update the software documentation web page for http://cpcwebdev.ncep.noaa.gov/~wd51we/wgrib2/get_int.html and create a new software documentation web page for http://cpcwebdev.ncep.noaa.gov/~wd51we/wgrib2/get_int2.html . To be implemented on December 7 at 1500Z.

RFC #518 – Implement enhanced EST/EDT time handling in the 'cpcops.cf' cron job. Currently there is no standard way to deal with Daylight and Standard Time changes for local-time dependent crontab entries. This change allows such entries to handle time changes without manual intervention by setting 2 jobs that run only if the difference between UTC and local time are a match. To be implemented on December 8 at 1400Z.

RFC #520 – Retire 2 existing NCAR processes on the Compute Farm 'cpcops' account: 1) Growing Degree Days, Pan Evaporation, Soil Temperature; and 2) International Daily Temperature and Precipitation Graphics. These 2 processes have been replaced by GIS versions. To be implemented on December 8 at 1600Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of December 7, 2015 may affect CPC:

RFC #1550 – WCOSS Dataflow v1.75.0 - Modify the DBNet servers on WCOSS to begin sending additional CDAS ASCAT data to NOMADS at the request of CPC. To be implemented on December 8 at 1300Z.

The following NCO RFCs are in progress and may affect CPC:

RFC #1435 – GPFS v4.1 (on Tide) - Enhance the existing WCOSS - Tide phase-1 and phase-2 storage solution by adding metadata-only GPFS NSD servers and changing the existing data-and-metadata NSD to data-only servers. Existing data will be "restriped" to separate the data and metadata. Implementation began on November 4 at 1200Z and should be completed by December 20. NCO/IDSB will send notification to users via the WCOSS-announce mailing list should planned work be impactful to users.

Ocean Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of December 7, 2015:

RFC #514 - Add 0.5 deg GEFS to the NAWIPS tables. Remove 1 deg GEFS from the ENSEMBLE list. Also repair the ETSS CONUS name and remove the non-working SREF 925mb entry in 'model_group.tbl' for the ENSEMBLE part of nmap2. To be implemented on December 8 at 1715Z.

RFC #515 – Update script 'make_send_xml.pl' for improved documentation. To be implemented on December 7 at 1230Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of December 7, 2015 may affect OPC:

RFC #1546 – GEFS v11.0.4 - Update GEFS 0p5 degree GEMPAK job to include additional parameters at the request of OPC. To be implemented on December 8 at 1200Z.

RFC #1547 – tropcy_qc_reloc v5.0.2 – Add threading to the tropcy_qc_reloc job for multiple models so that the runtime for the job will be consistent and not vary based on the number of storms or size of the storms. To be implemented on December 8 at 1200Z.

The following NCO RFCs are in progress and may affect OPC:

RFC #1435 – GPFS v4.1 (on Tide) - Enhance the existing WCOS - Tide phase-1 and phase-2 storage solution by adding metadata-only GPFS NSD servers and changing the existing data-and-metadata NSD to data-only servers. Existing data will be "restriped" to separate the data and metadata. Implementation began on November 4 at 1200Z and should be completed by December 20. NCO/IDSB will send notification to users via the WCOS-announce mailing list should planned work be impactful to users.

RFC #1522 – MRMS v10.5.1 - Update MRMS to version 10.5.1, to begin production of the RIDGE2 (Radar Integrated Display with Geospatial Elements version 2) products operationally. Implementation began on November 30 at 1300Z and should be completed by December 28.

The following NCO RFCs, which may affect OPC, were approved with an implementation date TBD:

RFC #1357 – RTOFS global v1.1.0 – Major upgrade of the Global RTOFS model. See the TIN at: <http://www.nws.noaa.gov/os/notification/tin15-36global-rtofsaaa.htm> for details. This was advertised as having an October 6

implementation date but this implementation is being postponed due to a delay in the Navy's HYCOM model upgrade. Once the HYCOM upgrade is implemented, the Global RTOFS will be scheduled for implementation. Notification will be given in advance so users may prepare for any changes which may affect them. This upgrade of the Global RTOFS was approved by the NCEP Director.

Weather Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of December 7, 2015:

RFC #517 - For the 2016 Winter Weather Experiment, test and run CF scripts to compute wind probabilities using NDFD winds and 10-meter winds from SREF/GEFS, create hourly snowfall verification using RAP13 and WPC ptype algorithm, post process experimental fields from 3km NAMX and HRAM3. Implementation to begin on December 7 at 1600Z and be completed by 2200Z on December 28.

RFC #519 - WPC has decided to unify ensemble members used by PWPF (Probabilistic Winter Precipitation Forecast) and PQPF (Probabilistic Quantitative Precipitation Forecast). The first step is to modify PWPF to output QPF for PQPF to use to compute variance. The step two to modify PQPF scripts will follow shortly. These changes will not affect PWPF products. To be implemented on December 8 at 1400Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of December 7, 2015 may affect WPC:

RFC #1547 – tropcy_qc_reloc v5.0.2 – Add threading to the tropcy_qc_reloc job for multiple models so that the runtime for the job will be consistent and not vary

based on the number of storms or size of the storms. To be implemented on December 8 at 1200Z.

The following NCO RFCs are in progress and may affect WPC:

RFC #1435 – GPFS v4.1 (on Tide) - Enhance the existing WCROSS - Tide phase-1 and phase-2 storage solution by adding metadata-only GPFS NSD servers and changing the existing data-and-metadata NSD to data-only servers. Existing data will be "restriped" to separate the data and metadata. Implementation began on November 4 at 1200Z and should be completed by December 20. NCO/IDSB will send notification to users via the WCROSS-announce mailing list should planned work be impactful to users.

RFC #1522 – MRMS v10.5.1 - Update MRMS to version 10.5.1, to begin production of the RIDGE2 (Radar Integrated Display with Geospatial Elements version 2) products operationally. Implementation began on November 30 at 1300Z and should be completed by December 28.

Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

1. The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.